

Maintenance of Small Hydroelectric (Cont.)

CZECH/2788

lubrication, and cooling problems. The final part is devoted to the automatic control of small hydroelectric power plants and of faults occurring in them. The book is based on the lecture notes of the authors: Danihelka, Hrdý, Jurečka, Kunc, Pišl and Státný. These notes conform to the standard educational program of the Ministry of Fuels and Power Engineering, and outline the technical minimum for professional schools on hydroelectric power plants. In the text specialized publications and advice of the following persons were utilized: Jaroslav Cabelka, Doctor of Engineering; Jan Kieswetter, Doctor of Engineering; Ctirad Nahlovský, Engineer; Miroslav Nechleba, Doctor of Engineering; Svatopluk Němeček, Engineer; and Ladislav Reiss, Engineer. The authors recommend the application of regulations in the operation of hydroelectric power stations, safety rules, regulations of the Elektrotechnický Svaz Československý (Czechoslovak Association of Electrical Engineers), and ČSN standards. There are 42 references, all Czech.

TABLE OF CONTENTS:

Foreword

5

Card 2/12

Maintenance of Small Hydroelectric (Cont.)

CZECH/2788

I. Introduction	7
A. Water Power	9
B. Hydropower Engineering in CSR	11
C. Earning Capacity of Hydroelectric Power Plants	14
D. Planned Utilization of Water Power	14
E. Importance of Hydroelectric Power Plants	18
II. Economy of Hydroelectric Power Plants and Their Joint Operation With Steam Plants	21
A. Economy of Hydroelectric Plants	21
B. Joint Operation of Hydro- and Steam-electric Power Plants	26

Card 3/12

Maintenance of Small Hydroelectric (Cont.)

CZECH/2788

III. Decisions on the Water Economy of Hydroelectric Power Plants	30
A. Run-of-River Plant	30
B. Storage Plant	38
C. Selection of the Economic Capacity of a Storage Plant	42
IV. Water Wheels and Their Main Components	48
A. Types of Water Wheels	48
1. Gravity water wheels	48
2. Hydraulic turbines	48
a) Francis turbine	51
b) Propeller turbine	54
c) Kaplan turbine	56
d) Pelton turbine	58
B. Main Advantages of Hydraulic Turbines	60
1. Power and efficiency	60
2. Total and net head	63

Card 4/12

Maintenance of Small Hydroelectric (Cont.)

CZECH/2788

3. Hydraulic similarity of turbines	66
4. Measured revolutions of turbines	67
5. Turbine with varying head and changing Q [flow]	68
C. Main Turbine Components	69
1. Speed regulator [governor]	69
2. Synchronous [outlet] valve	69
3. Lubrication units	70
4. Air admission valves [relief valves]	71
5. Turbine shaft	71
6. Stuffing boxes	73
7. Couplings	74
8. Suspension bearing	77
9. Guide bearing and its location	79
10. Suspension framework	81
11. Draft tube	81
12. Gearing	82
D. Cavitation	84

Card 5/12

Maintenance of Small Hydroelectric (Cont.)

CZECH/2788

V. Lubrication Units, Filters, and Coolers Used in Hydraulic Turbines	88
A. Selection of Lubrication Units	88
1. Horizontal turbines	88
2. Vertical turbines	90
3. Lubricating methods	92
a) Of short duration	92
b) Of long duration	94
4. Components of lubricating units	101
a) Oil pumps	102
b) Oil filters	102
c) Water filters	104
d) Oil coolers	108
B. Selection of Lubricants	109
1. Oil testing	110
2. Nonprofessional tests	111
3. Laboratory tests	112
4. Instructions on the selection and use of lubricants (table)	114

Card 6/12

Maintenance of Small Hydroelectric (Cont.)

CZECH/2788

C. Operation of Lubrication Units	113
D. Maintenance of Lubricating Machinery and of Lubricants	118
1. Maintenance of lubricating machinery	118
2. Maintenance of lubricants	120
VI. Bearings of Hydraulic Turbines	123
A. Introduction	123
B. Control of Bearings	123
1. Selection of bearings	123
2. Material of bearings	124
3. Operation of bearings	126
4. Temperature of bearings	127
5. Cooling equipment	130
6. Maintenance and repair of bearings	131
C. Faults in the Operation of Antifriction Bearings	132

Card 7/12

Maintenance of Small Hydroelectric (Cont.)

CZECH/2788

1. Scaling off on the surface	132
2. Cracks and fractures	133
3. Cavities and impressions	133
4. Abrasions	134
5. Wearing	134
6. Forming of craters and grooves	135
7. Rusting	135
8. Damaging the bearing cage	135

D. Mounting and Dismantling of Antifriction Bearings and Their Repair

1. Fittings of bearings	135
2. Play in the bearings	135
3. Structure of the bearing with consideration to mounting and dismantling	137
4. Mounting and dismantling accessories	138
5. Cleaning the components parts	139
6. Checking the component parts	140
7. Greasing bearing components before mounting	141
8. Filling with lubricants	141
9. Testing under running conditions	142
10. Information concerning mounting	142

Card 8/12

Maintenance of Small Hydropower (Cont.)

OZECR/2788

VII. Penstocks, Trash Racks, and Gates and Valves	144
A. Penstocks	144
1. Cast iron penstocks	145
2. Steel penstocks	147
3. Wooden penstocks	149
4. Reinforced-concrete penstocks	150
B. Protection of Penstocks	151
1. Surge tank	151
2. Safety valve	153
3. Piston safety valve	153
4. Pressure-regulating device	153
C. Penstocks for Idle Water	153
D. Trash Racks	154
E. Operation and Maintenance of Penstocks and Trash Racks	155

Card 9/ 12

Maintenance of Small Hydroelectric (Cont.)

OZECM/2/88

F. Gates	156
1. Vertical-lift gates	156
2. Tainter gates	157
3. Rolling gates	158
4. Hinged-leaf gates	159
G. Penstock Valves	159
1. Flap valves [butterfly valves]	159
2. Inside-screw-type gate valve	160
3. Ball valve	161
4. Needle valve (Johnson valve)	163
H. Operation and Maintenance of Penstock Gates and Valves	163
VIII. Automatic Hydroelectric Power Stations	164
A. Introduction	164
B. Description of the Equipment of Complete Automation	165
1. Devices for automatic operation	168
2. Devices for automatic synchronization and phase control	168
3. Control and auxiliary devices	169
Card 10/12	



Maintenance of Small Hydroelectric Stations (Cont.)

CZE/15/2788

- |   |     |
|---|-----|
| 4. Starting turbine operation   | 171 |
| 5. Stopping turbine operation   | 173 |
| 6. Switching over from turbine to pump operation  | 173 |
| 7. Switching over from pump to turbine operation  | 174 |
| 8. Stopping pump operation  | 174 |
| 9. Stopping under failures and quick manual shutting-off of the "danger" switch from the station control room | 175 |

- IX. Automatic Fault Control in Small Hydroelectric Power Stations With Synchronous Generators 177
- |  |     |
|--|-----|
| 1. Introduction  | 177 |
| 2. Principles of automatic fault control in hydroelectric power stations | 177 |
| 3. Technical equipment of the power station for automatic fault control  | 179 |
| 4. Description of control cells  | 183 |
| 5. Equipment of control cells  | 186 |
| 6. Description of operations of automatic fault control                  | 189 |
| 7. Sequence of operations in automatic fault control                     | 194 |

Card 11/12

Maintenance of Small Hydroelectric (cont.)

CZECH/2788

8. Maintenance of automatic fault-control equipment 195

9. Mounting automatic fault-control systems 196

Bibliography 197

AVAILABLE: Library of Congress (PC81.37)

Card 12/12

JP/bg  
1-19-60

HRDY, J.

Assistance of machine-tractor stations in the mechanization of livestock production. p. 115  
MECHANISACE ZEMEDELSTVI. Vol. 5, No. 6, Mar. 1955

SO: Monthly East European Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

HRDY, J.

Process of maintaining milking apparatus. p. 133.

83rd birthday of Josef Cerny. p. 135.

MECHANISACE ZEMEDELSTVI, Praha, Vol. 5, no. 7, Apr. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

HRDY, J.

"Let us prepare in time the mobile scalding units."

MECHANISACE ZEMEDLSTVI, Praha, Czechoslovakia, Vol. 5, No. 18, September 1955.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

HRDY, J.

"Fulfilling successfully the plan for mechanization of strenuous work in the animal industry."

MECHANISACE ZEMELSTVI, Praha, Czechoslovakia, Vol. 5, No. 20, October 1955.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

HRDY, J.

Hrdy, J.

Machine-tractor stations lessen the work in animal husbandry by mechanization of stables. p. 173.

Vol. 5, no. 9, May 1955  
MECHANISACE ZEMEDILSTVI

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 9,  
Sept. 1955, Uncl.

HRDY, J.

Winter repairs of stable machinery and equipment.p. 10 (Mechanizace Zemdelstvi  
Vol. 6, no. 1, Jan. 1956 Praha)

SO: Monthly List of East European Accession (SEAL) LC, Vol. 6, no. 7, July 1957. Uncl.



HRDY, J.

How to prevent a valve from falling in the cylinder. p. 11 (Mechanizace  
Zemdelstvi Vol. 6, no. 1, Jan. 1956 Praha)

SO: Monthly List of East European Accession (EEAL) IC, Vol. 6, no. 7, July 1957. Uncl.

HRDY, J.

HRDY, J. Activity of the group for stable mechanization in winter. p. 31.

Vol. 6, no. 2, Jan. 1956  
MECHANISACE ZEMEDELSTVI  
AGRICULTURE  
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

HRDY, J.

HRDY, J. More attention to preparations for 1957. p. 514

Vol. 6, No. 21, Nov. 1956  
MERCHANISACE ZEMĚDELSTVI  
AGRICULTURE  
Praha, Czechoslovakia

So: East European Accessions, Vol. 6, No. 3, March 1957

HRDY, J.

HRDY, J. Experience from the work with groups for mechanizing animal industry. p. 10.

Vol. 7, no. 1, Jan. 1957  
MECHANISACE ZEMEDLSTVI  
AGRICULTURE  
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

HRDY, J.

HRDY, J. Prospects for mechanizing animal production. p. 65. (JH). Refrigeration of milk on farms in the United States, Great Britain, and Western Germany. p. 65.

Vol. 7, no. 3, Feb. 1957  
MACHINISACE ZEMEDĚLSTVÍ  
AGRICULTURE  
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

HRDY, J.

Mechanization should be purposeful and economical in animal production. p. 352.  
(MECHANISACE ZEMEDELSTVI, Vol. 7, No. 15, Aug 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957, Uncl.

HRDY, J.

Maintenance of machinery increases the efficiency of production.

p. 445. (Mechanese Zemedlstvi. Vol. 7, No. 19, Oct. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 2,  
February, 1958

HRDY, J.

Responsibility in handling milking machines.

p, 494 (MECHANISACE ZEMEDELSTVI) Vol. 7, no. 21, Nov. 1957,  
Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,  
March 1958



HRDY, J.

The SMK 150 barn cleaner. p.237

MECHANISACE ZEMEDELSTVI. (Ministerstvo zemedelstiv a lesniho hospodarstvi)  
Praha, Czechoslovakia. Vol.9, no.10, Oct. 1959

Monthly List of East European Accessions (EEAI) LC, Vol.8, no.12  
Dec. 1959  
Uncl.

HRDY, J.

Machine-tractor stations are introducing manure and irrigation implements.  
p. 282.

Praha. MECHANISACE ZEMEDELSTVI. Vol. 9, no. 12, Dec. 1959.

Praha, Czechoslovakia

East

Monthly list of European Accession (EEAI) LC Vol. 9, no. 2

Feb. 1960, Uncl.

HRDY M.

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and  
Their Applications - Fermentation Industries.

H.

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37761

Author : Barta, J., Antony, K., Hrdy, M., Rosa, M.

Inst : -

Title : Elimination of the Scale from Evaporators of Alcohol-  
Molasses Plants.

Orig Pub : Kvasny Prumysl, 1957, 3, No 10, 223-224

Abstract : Elimination of scale from evaporators of alcohol-molas-  
ses plants by boiling with 3.5% lactic acid (from spent  
or technical grade 30-50% acid) for 1-3 hours is recom-  
mended. If the scale adheres it is necessary to rub  
it off immediately, before it hardens upon drying.

Card 1/1

04 HRDY, S.

Polarographic evaluation of pepsin. O. Hrdý (State Health Inst., Prague). *Chem. Listy* 44, 100-11(1950).  
The method for indirect detn. of pepsin is based on the polarographic reaction of S-contg. albumoses and peptones (produced by pepsin hydrolysis under standard conditions) with  $[\text{Co}(\text{NH}_3)_4]\text{Cl}_2$ . The unreacted protein was pptd. with sulfosalicylic acid prior to measurements. Accuracy is 5%, if blanks with the protein in the absence of pepsin are considered.  
M. Hudlický

A HADY, C.

11-6

Determination of vitamin B<sub>12</sub> in presence of fluorometri-  
cally active accompanying materials. O. Hladý (State Inst.  
Health, Prague). *Časopis Českého Lékařského 63*, 115-16  
(1950).—Riboflavin is detd. in the presence of blue-fluores-  
cing products with a Klett fluorometer, model 2070, by ex-  
citing with light of 365 mμ, and filtering the emitted light  
alternately through 2 filters transparent above 440 and 600  
mμ, resp. A formula is given for evaluating the results.  
P. Weiss

3A HADY, C.

The determination of tropane alkaloids. I. O. Hrdý (State Health Inst., Prague). *Chem. zvesti.* 7, 325-6 (1953).  
—The colorimetric detn. is based on the formation of addn. compds. with methyl orange (I) in 0.5 M boric acid. The resulting compds. dissolve in  $\text{CHCl}_3$ . The mol. relationship in which the alkaloids combine with I was found to be 1:1 for hyoscyamine and atropine and 3:1 for scopolamine. The decompn. products of alkaloids do not interfere with the estn.  
Dagmar Hubíková

HRDY, O.; JUNG, Z.

Polarographic determination of 1-hydrazinophthalazine and of 1,4-dihydrazinophthalazine. Cesk. farm. 3 no.6:194-196 Je '54.

1. Ze Statního ustavu pro kontrolu lečiv v Praze.  
(SYMPATHOLYTICS, determination,  
\*hydralazine & 1,4-dihydrazinophthalazine, polarographic)  
(POLAROGRAPHY,  
\*of hydralazine & 1,4-dihydrazinophthalazine)

HRDY, O.

Polarographic determination of tetrasodium salt of 2-methyl-1,4-naphthalenediol diphosphate (vitamin K). Cesk. farm. 3 no.6:196-199 Je '54.

1. Ze Statního wstavu pro kontrolu leciw v Prase.  
(VITAMIN K, derivatives,  
\*sodium menadiol diphosphate, determ., polarography)  
(POLAROGRAPHY,  
\*of vitamin K sodium menadiol diphosphate)



HRDY, O.

Errors and precision in photometry. Cesk. farm. 4 no.5:  
258-262 June 55.

(DRUGS, determination  
photometry, errors & precision)

HRDY, O.; JUNG, Z.; SLOUF, A.

Identification, partition and determination of digitalis glycosides. 2. Partition and determination of single lanatosides and desacetyllanatosides in lanatoside ABC. Cesk. farm. 4 no.8:395-400 Oct 55.

1. Ze statního ustavu pro kontrolu lečiv.

(DIGITALIS, determination  
single lanatosides & desacetyllanatosides in  
lanatosides ABC.)

HRDY, O.

Qualitative test and photometric determination of tetracaine. O. Hrdý and A. Šloaf (Stát. ústav kontrola léčiv, Prague). *Časopis. farm.* 5, 21-4 (1966). The qual. test for tetracaine (I) is based on the impossibility of diazotization unlike other local anaesthetics derived from *p*-aminobenzoic acid. For the photometric estn. of I, the butyl of the amino group is released by Br and the free amino group is diazotized. To 1 ml. of the sample contg. 50-300  $\gamma$  I-HCl, add 1 ml. 0.1N HCl and 1 ml. 0.5% Br soln. and allow to stand for 15 min., add 1 ml. 0.5% NaNO<sub>2</sub> soln., 1 ml. 10% HCl, and, after 3 min., 1 ml. 1% ammonium sulfamate soln. After the bubble is finished, add 1 ml. 0.2% soln. of *N*-1-naphthylethylenediamine-HCl. Dil. the orange-red soln. to 25 ml. with N HCl and measure the color at 500 m $\mu$  by using a Pulfrich spectrophotometer. The presence of *p*-aminobenzoic acid or adrenaline does not interfere.

K. Macok

HRDY, Q.

338 Photometric methods in the determination  
of pharmaceuticals. By J. G. Pate. Int. J.  
Pharm., 1976, 3, 1-10. (See also 7509) (C.A.B. Internat.  
1976) 5 p. 1 fig. 1 tab. 2 refs. See also 7509

張

410000  
 Behavior of some brominated derivatives of *p*-amino-  
 benzoic acid after diazotization and coupling. G. Hrdy  
 and A. Slouf (Scastl. Arzneimittel Kontrollanstalt,  
 Prague). *Pharmazie* 11, 44-0 (1956). — *p*-Butylaminoben-  
 zoic acid and its 2-dimethylaminoethyl ester (Tetracaine or  
 Pantoicne) after alkylation and bromination in 0.1N  
 HCl with 0.5% br soln. were diazotized and coupled with  
*N*-1-amphthyl-*o*-phenylenediamine. Solns. of the two compds  
 gave the same spectral curves and extinction coeffs. as the  
 corresponding derivs. of *p*-aminobenzoic acid and several  
 of its esters commonly used as local anesthetics.  
 G. W. Hargreaves

Met 2

CZECHOSLOVAKIA/Chemical Technology. Pharmaceuticals.  
Vitamins. Antibiotics.

H

Abs Jour: Ref Zhur-Khin., No 24, 1958, 82719.

Author : Hrdy O., Urbanova L.

Inst :

Title : The Photometric Determination of Pyridoxine in  
Pharmaceutical Preparations.

Orig Pub: Ceskosl. farmac., 1957, 6, No 9, 510-514.

Abstract: The method is based on the reaction of pyridoxine  
(I) with diethyl-p-phenylene-dianine (II) in the  
presence of oxidizing agents with the formation  
of blue indophenol dyestuff not stable in aqueous  
solution. The dyestuff is stable in benzene and  
has  $\lambda$  maximum of 605  $m\mu$ . To the solution of I

Card : 1/3

CZECHOSLOVAKIA/Chemical Technology. Pharmaceuticals.  
Vitamins. Antibiotics.

H

Abs Jour: Ref Zhur-Khin., No 24, 1958, 82719.

(10-200 micrograms) is added the phosphate buffer solution (pH 7), one ml of 0.1% solution of sulfate II and 10 ml benzene, one ml of 1% solution of ferricyanide K (III), and the dyestuff obtained is immediately extracted with benzene and the determination is carried out. The presence of other vitamin B complexes and compounds which are present with I (biotin, methionin, cholin, betain) does not interfere with the determination. Ascorbic acid and salicylic acid and phenol interfere with the determination. Ascorbic acid reduces III and the amount of the latter must be accordingly increased. Salicylic acid forms a green dyestuff which is partially soluble in benzene, and salicylic acid must be ex-

Card : 2/3

25

CZECHOSLOVAKIA/Chemical Technology. Pharmaceuticals.  
Vitamins. Antibiotics.

H

Abs Jour: Ref Zhur-Khim., No 24, 1958, 82719.

tracted from an acidified solution prior to the reaction. The phenol forms a violet dye which has  $\lambda$  of 580 millimicrons. From the measured extinction the extinction must be subtracted which was measured after the benzene solution has been shaken with a 5% boric acid solution. Thus it is possible to carry out the determination in the presence of a considerable excess of phenol.

Card : 3/3



CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Organic  
Substances.

E-3

Libs Jour : Ref Zhur - Khim., No 15, 1958, No 50065

Author : Hrdy, O.; Potrikova, H.

Inst : Not given

Title : Photometric Determination of m-Aminophenol in P-Aminosalicylic Acid.

Orig Pub : Coskosl. farmc., 1957, 6, No. 10, 587-589

Abstract : The method of determination of very small amounts of m-aminophenol (I) in p-aminosalicylic acid (II) is based on the reaction with diethyl-p-phenylenediamine (III) in the presence of  $K_3Fe(CN)_6$  (IV). The dye produced of I, the structure of which probably is that of indanino, is soluble in benzene, while the dye of the indophenol type, produced of II, does not pass from alkaline solutions into benzene. The conclusions concerning the structure of

Card 1/2

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Organic  
Substances.

E-3

Abs Jour : Ref Zhur - Khim., No 15, 1958, No 50065

these dyes were made based on the characteristic magnitudes of absorption maxima of their solutions in benzene and chloroform. To 5 ml. of the solution of Na salt of II containing 25-75 % of I, 2 ml. of 0.2% solution of III sulfate, 2 ml. of 1 N  $\text{NH}_4\text{OH}$ , 10 ml. of benzene and 2 ml. of 2% solution of IV are added. After shaking the mixture for 20 sec., the benzene layer is separated, washed with the mixture of 3 ml. of water and 2 ml. of 1 N  $\text{NH}_4\text{OH}$ , dried on anhydrous  $\text{Na}_2\text{SO}_4$  and photometered at 550 m $\mu$ . The content of I is computed using a calibrating curve. The error of the determination is plus/minus 3 % of I. -- N. Turkevich.

Card 2/2

CZECHOSLOVAKIA / Physical Chemistry--Electrochemistry. B-12

Abs Jour : Referat Zhur--Khimiya, No. 11, 1959, 38011

Author : Hrdy, O.

Inst : Not given

Title : The Behavior of Folic Acid and the Products of  
Its Decomposition During Polarization.

Orig Pub : Chem. Listy, 52, No. 6, 1058-1064 (1958) (in  
Czech)

Abstract : Folic acid is reduced with the formation of a 2-  
electron wave which at pH 11 separates into  
two waves. At increased pH values the drop in  
the more positive wave follows the shape of the  
dissociation curve. The value of the recombina-  
tion rate constant  $k$  has been calculated as  $4.3 \cdot 10^{13}$  liter mol<sup>-1</sup> sec<sup>-1</sup>. The presence of two  
more negative waves in acid solutions is ex-

Card 1/3

CZECHOSLOVAKIA / Physical Chemistry--Electrochemistry. B-12

Abs Jour : Referat Zhur--Khimiya, No. 11, 1959, 38011

plained by the evolution of  $H_2$  at the cathode. 2-amino-4-hydroxy-6-pteridine aldehyde is reduced with the formation of two waves. The first wave is accompanied at more negative E values by a second, concentration-independent wave, which the author ascribes to the adsorption of the oxidized form of the depolarizer. The height of both of the main waves likewise does not appear to be a linear function of the concentration of the pteridine aldehyde. The more positive wave is ascribed to the reduction of the pteridine nucleus and the more negative wave is ascribed to the reduction of 2-amino-4-hydroxy-pteridinecarboxylic acid produces one of the waves [sic], which is deformed in the pH

Card 2/3

CZECHOSLOVAKIA / Physical Chemistry--Electrochemistry. B-12

Abs Jour : Referat Zhur--Khimiya, No. 11, 1959, 38011

range 11-12 as a result of recombination processes. The formation of pteridine alcohol has been studied and the possibility of the analysis of a mixture of folic acid with its decomposition products is discussed. -- P. Zuman

Card 3/3

CZECHOSLOVAKIA/Chemical Technology. Chemical  
Products and Their Applications.  
Medicinal Substances. Vitamins.  
Antibiotics.

H

Abs Jour : Ref Zhur-Khimiya, No 6, <sup>1959</sup>~~1958~~, 20551

Author : Hrdy, O.

Inst :                     

Title : New Articles in the Czechoslovakian Pharma-  
copoeia 2.

Orig Pub : Ceskosl. farmac., 1957, 6, No 3, 172-182

Abstract : No abstract.

Card : 1/1

H-90

COUNTRY : Czechoslovakia B-12  
CATEGORY :  
ABS. JOUR. : RZKhim., No. 1959, No. 85513  
AUTHOR : Hrdy, O.  
INST. :  
TITLE : Polarographic Behavior of Folic Acid and of  
Its Decomposition Products  
ORIG. PUB. : Collect. Czechosl. Chem. Commun., 1959, 24,  
No 4, 1180-1187  
ABSTRACT : See RZKhim, 1959, No 11, 38011.

CARD:

HRDY, O.; KOLOCOVA, J.

Corticosteroids. I. Partition chromatography of some corticosteroids.  
Cesk. farm. 11 no.4:185-187 '62.

1. Stetni ustav pro kontrolu leciy, Praha.  
(ADRENAL CORTEX HORMONES chem) (CHROMATOGRAPHY)



HRDY, O.

Corticosteroids. II. Polarographic behavior of some corticosteroids.  
Cesk. farm. 11 no.4:192-196 '62.

1. Statni ustav pro kontrolu leziv, Praha.  
(ADRENAL CORTEX HORMONES chem)  
(CHEMISTRY ANALYTICAL)

HRDY, O.

Corticosteroids. III. Determination of triamcinolone and some esters of corticosteroids. Cesk. farm. 11 no.5:255-259 Je '62.

1. Statni ustav pro kontrolu leziv, Praha.

(ADRENAL CORTEX HORMONES chem)

HRDY, O.

CZECHOSLOVAKIA

no academic degree indicated

State Institute for Drug Control, (Staatliches Institut fur Arzneimittel-kontrolle), Prague

Prague, Collection of Czechoslovak Chemical Communications, vol 27, No 10, Oct 62, pp 2447-2449.

"Polarographic Studies of Some Steroids"

CZECHOSLOVAKIA

SUTTA, F; HRDY, O.

1. Technical Institute of Chemistry (Prague); State  
Institute of Drug Control (Prague)

Prague, Collection of Czechoslovak Chemical Communications,  
No 12, 1965, pp 3263-3270

"Spectrophotometric Examination of the Reactions of Nitrazin  
with Hydroxides and Sulfites."

HRDY, O. , inz. dr.

Stilbestrol diphosphate. Cesk. farm. 14 no.1:41-43 Ja '65

Stilbestrol dipropionate. Ibid.:43-44

Testosterone isobutyrate. Ibid.:44-45

Triamcinolone. Ibid.:47-48

1. Statni ustav pro kontrolu leziv.

HRDY, O.

On the pharmacopoeia article "Determination of light absorption. Cesk. farm. 12 no. 9:478-482 N°63

1. Statni ustav pro kontrolu leziv, Praha.

\*

HRDY, Vaclav

~~Calculation of the wage loss compensation for labor holidays~~  
to the workers in trade and public eating facilities. Prace  
mzda 11 no.6:294-295 Je '63.

HRDY, Vojtech, promovany geolog

Geologic use of electric logging interpretation in prospect boring in the Kladno-Rakovnik Basin. Geol Pruzkum 5 no.11: 339-340 N '63.

1. Geologicky pruzkum, n.p., Praha, zavod hlubokych vrtu, Tuchlovice.



HREAMATA, E., ing.; PLESCAN, Gh., ing.

Utilization of flax and hemp fibers in the manufacture of  
specially thin paper, Cel hirtie 11 no.12:409-413 D '67.

HREBACKA, J., inz.

Improvement of laboratory work in coal preparation  
research in the Belgian Inichar Institute. Paliva 43  
no. 12: 372-374 D '63.

Country : CZECHOSLOVAKIA *HA. 84-011*  
 Category : Chemical Technology. Chemical Processing of Solid  
 Fossil Fuels  
 Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No 50992  
 Author : Hrebacka, J.  
 Institute : -  
 Title : Adsorption of Phenols from Ammonia-Containing  
 Waters by Coal Charge Mixtures  
 Orig Pub. : Paliva, 1958, 38, No 2, 47-50  
 Abstract : Review of the capability of coal charge mixtu-  
 res to adsorb phenols, contained in ammonia  
 waters (AW) effluent from coke plants and la-  
 boratories. Commercial investigations revealed  
 the possibility of utilization of AW in the  
 flotation of coals. Presented are optimum con-  
 ditions for the flotation. Commercial data in-  
 dicate a possibility of lowering the consump-  
 tion of flotation oils while phenol content  
 in AW is simultaneously and substantially  
 Card: 1/2

H-112

HREBACKA, J., inz.

Purification of waste water from the Velkobana Handlova  
coal washing plant. Maliva 44 no.12:361-363 D '64.

1. Scientific Coal Research Institute, Section Pokusne  
pradlo, Ostrava-Kuncicky.

HREBACKA, J., inz.

Use of chemical agents in coal preparation. Paliva 41 no.7:222-226  
J1 '61.

1. Pokusne pradlo, Ostrava - Kuncicky.

HREBACKA, J., inz.

Determining the granularity of particles below 60 microns by sedimentation balance. Paliva 41 no.9:371-377 S '61.

1. Vedecko-vyzkumny uhelny ustav, Pokusne pradlo, Ostrava - Kuncicky.

HREBACKA, J., inz.

Experience with the nonphenolic flotation reagent Flotakol N  
in the dressing plants of the Ostrava-Karvina coal field. Paliva  
43 no.6:162-169-Je '63.

1. Vedscko-vyzkumny uhelny ustav, Pokusne pradlo, Ostrava -  
Kuncicky.

HRBEK, Jan, Dr.

HRBEK, Jaromir, Prof. Dr; HRBEK, Jan, Dr

Motor analysor. Neur. & psychiat. cesk. 17 no.3:142-149 Je '54.

1. Neurologicka klinika PU v Olomouci, prednosta: prof. Dr Jaromir  
Hrbek Ustav experimentalni pathologie lekarske fakulty v Plzni,  
prednosta: Dr Jan Hrbek.

(CEREBRAL CORTEX, physiology,

\*motor analysor



HREBEK, Jan

HREBEK, Jan, MUDr

1954

Cerebral cortex as the complex of analysors. Neur. & psychiat.  
cesk. 17 no.3:149-155 Je '54.

1. Lekarska fakulta v Plzni. Ustav experimentalni pathologie,  
prednosta: MUDr Jan Hrbek.

(CEREBRAL CORTEX, physiology,  
\*analysor funct.)

YUGOSLAVIA

SAVICEVIC, M., LJ. PETROVIC, U. MARTINIS, and M. ~~HOGLJAN-~~  
OYIC, Labor Medicine Department (Odeljenje Medicine rada),  
Public Health Institute of Serbia (Zavod za Zdravstvenu  
Zastitu) NR Srbije).

"Experimental Investigation of the Effect of Carbon Disul-  
fide on Mice Exposed to Work Stations at the 'Viskoza'  
Factory."

Belgrade, Glasnik Zavoda za Zdravstvenu Zastitu NR Srbije,  
Vol 11, Nos 3-4, 1962, pp 51-58.

Abstract: /Authors' English summary modified/ Groups of  
mice (153 in all) were exposed to 8.5 to 200 gamma of car-  
bon disulfide per liter of air 8 hours a day for 10 days.  
The control group numbered 40 mice. Subsequent microscop-  
ic study of liver, lungs, and brain tissue showed degener-  
ation, peribronchial and subpleural extravasation, subep-  
endymal hemorrhage, and proliferation of the cerebral  
neurologia. Similar but milder changes were also noted in  
1/1/the control group. No references.

HRBEK, Jar.; HRBEK, Jan; HAVLICEK, V.; HREBICEK, J.; SKLENOVSKY, A.

Epidural recording of electrical activity of the brain in a cat preparation in wakeful state. *Activ. nerv. sup.* 4 no.2:135-136 '62.

1. Laborator VNC lekarske fakulty Palackeho university v Olomouci, katedra patologicke fyziologie lekarske fakulty Palackeho university v Olomouci.

(BRAIN physiol)

HRBEK, Jar.; HRBEK, Jan; HAVLICEK, V.; HREBICEK, J.; SKLENOVSKY, A.

Localization of cortical areas of analyzers in the cat. *Activ. nerv. sup.* 4 no.2:136-137 '62.

1. Laborator VNC lekarske fakulty Palackeho university v Olomouci,  
katedra patologicke fyziologie lekarske fakulty Palackeho university  
v Olomouci.

(CEREBRAL CORTEX physiol)

HRBEK, Jar.; HRBEK, Jan.; HAVLICEK, V.; HREBICEK, J.; SKLENOVSKY, A.

The cortical area of proprioceptive analyzers, its somatotropic sectors and projection areola. Aktiv. nerv. sup. 4 no.2:137-138 '62.

1. Laborator VNC lekarske fakulty Palackeho university v Olomouci, katedra patologicke fyziologie lekarske fakulty Palackeho university v Olomouci.

(CEREBRAL CORTEX physiol)

HRBEK, Jar.; HRBEK, Jan.; HAVLICEK, V.; HREBICEK, J.; SKLEMOVSKY, A.

The proprioceptive motor and interoceptive intermotor control circuit.  
Activ. nerv. sup. 4 no.2:138-139 '62.

1. Laborator VNC lekarske fakulty Palackeho university v Olomouci,  
katedra patologicke fysiologie lekarske fakulty Palackeho university  
v Olomouci.

(CEREBRAL CORTEX physiol) (REFLEX CONDITIONED)  
(MOVEMENT physiol)

HRBEK, Jar.; HRBEK, Jan ; HAVLICEK, V.; HREBICEK, J.; SKLENOVSKY, A.

The problem of local and distal recording of evoked potentials. Activ. nerv. sup. 4 no.2:139-140 1962.

1. Laborator VNC lekarske fakulty Palackeho university v Olomouci,  
katedra patologicke fysiologie lekarske fakulty Palackeho university  
v Olomouci.

(CEREBRAL CORTEX physiol)

HRBEK, Jan; DOCKAL, C.; HREBICEK, J.; SKLENOVSKY, A.; DOSTALOVA, K.;  
VIZINOVA, H.; POLASEK, J.

Concomitant autonomic reactions during the process of training in  
laboratory language. I. Studies on thermal changes. Activ. nerv. sup.  
4 no.2:152-154 '62.

(BODY TEMPERATURE physiol) (LEARNING) (LANGUAGE)



HRBEK, J.; SKLENOVSKY, A.; HREBICEK, J.

Contribution to the problem of the cortical localization of the proprioceptive analyzer. Cas. lek. cesk. 101 no.36:1090-1096 7 S '62.

1. Ustav patologické fyziologie lékařské fakulty PU v Olomouci,  
prednosta prof. dr. J. Hrbek.  
(CEREBRAL CORTEX) (RECEPTORS NEURAL) (OCULOMOTOR MUSCLES)

HREBICEK, J.; KAMENICEK, O.; KOMENDA, S.; SCHROBER, B.

Evoked cortical responses in X-irradiated rats. *Physiol. Bohemoslov.*  
14 no.1:70-78 '65

1. Institute of Pathological Physiology, Central Radiological  
Institute and Institute of Medical Physics, Palacky University,  
Olomouc.

CZECHOSLOVAKIA

HREBICEK, J.; Department of Pathological Physiology, Medical Faculty, Palacky University, Olomouc.

"Neurodynamics of the Bemegride-Induced Generalized EEG Paroxysm."

Prague, Activitas Nervosa Superior, Vol 8, No 2, Jun 66, pp 190-193

Abstract: Results of 30 experiments with unanesthetized cats, immobilized with Remyolan and artificially ventilated are described. Paroxysm cycle was elicited by intravenous administration of Bemegride. The preparoxysmal phase, developed paroxysm, and post-paroxysmal phase are discussed. Various functional structures participate in different ways in the stages of the development of the generalized paroxysm, and provide data for their functional-morphological characteristics. 2 Figures, 1 Table, no references. Submitted at the 4th Interdisciplinary Conf. of Exper. and Clin. Study of Higher Nerv. Functions at Mar. Lazne, 12-15 Oct 65. Article is in English.

1/1

L 29416-66

ACC NR: AP6019956

SOURCE CODE: CZ/0079/65/007/003/0243/0243

AUTHOR: Hrebick, S.; Kumpel, Q.; Sokol, I.; Topiar, A.; Grumlik, R.; Uhlir, F.

ORG: Psychiatric Hospital, Opava (Psychiatricka lecebna)

TITLE: Comparison of effects of classical and combined therapy in schizophrenia  
This paper was presented at the 7th Annual Psychopharmacological Meeting, Jesenik, 22  
20-23 January 1965

SOURCE: Activitas nervosa superior, v. 7, no. 3, 1965, 243

TOPIC TAGS: therapeutics, psychoneurotic disorder, drug treatment

ABSTRACT: Pacification of the florid schizophrenic, his social-  
ization, and his contact with the physician were investigated.  
91 schizophrenic patients admitted to authors' hospital in 1954-  
1961 were studied. 39 patients received the classical convul-  
sive treatment and 52 the combined treatment. 76 patients im-  
proved during the treatment and 15 did not change. Those who  
did not improve received the classical convulsion treatment. A  
significant difference in favor of the combined treatment in-  
cluding psychopharmacological treatment was noticed. An average of  
29 days was needed to attain manageability using drugs, compared  
with 42 days with the shock treatment. For sociability the  
periods were 41 and 54, respectively, and for care of appearance  
24 and 40. [Orig. art. in Eng.] [JPRS]

SUB CODE: 06/ SUBM DATE: none

Card 1/1 CC

$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$

Alonso, Mario Benito and Aguilera, J. A. (1992) *pp.* 222-227

1. "International Institute of Law and Economics" - 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 26

HREBIK, F.; KVICALA, J.; KRIVSKY, L.; OIMR, J.

Observations of flares at the Ondrejov Observatory in the year 1962. Biul astr Cz 14 no.6:245-250 '63.

1. Astronomical Institute of the Czechoslovak Academy of Sciences, Ondrejov.

HREBIK, F.; VANYSEK, V.

"The Dependence of the Photometric Constant N of Comets on the Heliocentric Distance. In English." p. 65 (BULLETER ASTRONOMICHESKIKH INSTITUTOV CZECHOSLOVAKII. BULLETIN OF THE ASTRONOMICAL INSTITUTES OF CZECHOSLOVAKIA. VOL. 5, No. 4, July 1954; Praha, Czech.)

So: Monthly List of East European Accessions, (EEAL), LC, VOL. 4, No. 4, April 1955, Uncl..

HREBIK, F.; VOKALOVA, E.

SCIENCE

Periodicals: BIULETEN ASTRONOMICIESKIKH INSTITUTOV CZECHOSLOVAKII.  
BULLETIN OF THE ASTRONOMIC INSTITUTE OF CZECHOSLOVAKIA.  
Vol. 10; no. 2, Mar. 1959

HREBIK, F.; VOKALOVA, E. Radio signals from the artificial satellite.  
In english. p. 43

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5,  
May 1959, Unclass.



S/035/62/000/006/028/064  
A001/A101

3.1720

AUTHORS: Hřebík, F., Kvíčala, J., Křivský, L., Olmr, J.

TITLE: Observations of flares at the Ondřejov Observatory in the year 1960

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 6, 1962, 59-60  
abstract 6A446 ("Byul. astron. in-tov Chekhoslovakii", 1961, v. 12,  
no. 5, 169-184, English; Russian summary)

TEXT: This is the regular report on observations of flares at Ondřejov  
(Czechoslovakia). Data are presented on 309 flares and related bursts of solar  
radio emission at frequencies 808, 536 and 231 Mc, as well as on atmospherics  
at a frequency of 27 kc. Figures are given which show the curves of time  
variations of  $H\alpha$  line width. There are 18 references. /c

I. Zh.

[Abstracter's note: Complete translation]

Card 1/1

L 12770-63

ENT(1)/FCC(w)/BDS/EEC-2/ES(v)

AFFIC/EST-3 Pa-4/Eq-4 QW  
S/169/63/000/004/001/017 68

AUTHOR: Hrebik, F., Kvicala, J., Krivsky, L. (2)  
TITLE: Observations of flares at the Ondrejov Observatory in 1961  
PERIODICAL: Referativnyy zhurnal, Geofizika, no. 4, 1963, abstract 4A71  
(Biol. astron. in-tov Chekhoslovakii, v. 13, no. 5, 1962,  
199-208; English, summary in Russian)

TEXT: Data are presented on 157 flares and radio bursts associated  
with them at frequencies of 9400, 808, 536, and 231 megacycles, also data on  
atmospherics at 27 kilocycles recorded in 1961; also there are curves of  
changes in the width of the  $H_{\alpha}$  line plotted vs. time.  
Author's summary.

[Abstracter's note: Complete translation.]

Card 1/1

SOBRA, J.; SEDLAKOVA, E.; HREBIKOVA, A.

Congenital disorders of lipid metabolism. X. Familial hypercholesteremic xanthomatosis - detection of hyperproteinemia. Cas. lek. cesk. 102 no.25:699-700 21 Je '63.

1. III interni klinika fakulty vseobecneho lekarstvi KU v Praze, prednosta akademik J. Charvat Angiologicka laborator fakulty vseobecneho lekarstvi KU v Praze, reditel prof. dr. B. Prusik.

(XANTHOMATOSIS) (HYPERCHOLESTEREMIA)  
(BLOOD PROTEIN DISORDERS)

CZECHOSLOVAKIA

SOBRA, J., SEDLAKOVA, E., and HREBINKOVA, A., Third Clinic of Internal Medicine (III. interni klinika), Faculty of General Medicine (Fakulty vseobecneho lekarstvi), Charles University, Prague, Academician J. CHARVAT, director; and Angiological Laboratory (Angiologicka laborator), Faculty of General Medicine, Charles University, Prague, Prof. Dr. B. PRUSIK, director [individual affiliations cannot be determined].

"Congenital Defects in the Lipid Metabolism. X. Familial Hypercholesterol Xantomatosis. A Finding of Hyperproteinemia"

Prague, Casopis Lekaru Ceskych, Vol CII, No 25, 21 June 63, pp 699-700.

Abstract: Described is a test the purpose of which was to eliminate the interference of an increased level of blood lipides in the refractometric test. Serum nitrogen was determined by means of a microchemical method and a gradient cylinder was used to determine proteinemia, both operations being part of a refractometric determination. A table contains comparative data found in normal persons and patients suffering from familiar hypercholesterol xantomatosis. Sixteen references, including 13 Czech.

1/1

HREBOUT, Vaclav

Some urgent organization problems in the glass and ceramic industries. Sklar a keramik 13 no.5:124-125 My '63.

1. Ministerstvo spotrebního průmyslu, Praha.

HREBOUT, Vaclav

Time analysis of the controlling activities of managers. Podnik  
organizace 17 no.2:61-64 F '63.

1. Ministerstvo spotřebního průmyslu.

GINKO, Tadeusz; ADAMCZYK, Roman; SADLINSKI, Czeslaw; ORLOW, Tadeusz;  
HROSCZECHA, Maciej

Home- and heteroplasty of the aorta by means of experimental  
lyophilized grafts. Polski przegl.chir. 31 no.11:1169-1175  
N '59.

1. Z II Kliniki Chirurgicznej Sl. A. M. w Zabrze Kierownik:  
prof. dr J. Gasinski.

(AORTA transpl)

ADAMCZYK, Roman; CZOPIK, J.; GRZBIELA, J.; HRECZECHA, M.; GREGORCZYK, K.;  
MATULEWICZ, S.

Angiography of the coronary arteries. Pol. przegl. radiol. 29  
no.4:401-407 J1-Ag '65.

1. Z II Kliniki Chirurgicznej Slaskiej AM (Kierownik: prof. dr.  
J. Gasinski), z Zakladu Radiologii Slaskiej AM (Kierownik: doc.  
dr. med. B. Romanowski) i z Kliniki Chorob Wewnetrznych Slaskiej  
AM (Kierownik: prof. dr. med. J. Japa).



L 13246-66

ACC NR: AP600604

SOURCE CODE: CZ/0053/65/014/004/0295/0295

AUTHOR: Hrdina, P.; Kovalcik, V.

ORG: Department of Pharmacology, Medical Faculty, Comenius University, Bratislava  
(Katedra farmakologie Lek. fak. UK)

TITLE: Role of adrenotropic substances in changes in the effectiveness of indirect anticoagulants [This paper was presented during the Twelfth Pharmacologic Days, Smolenice, 28 Jan 65.]

SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 295

TOPIC TAGS: pharmacology, drug effect, nervous system drug, coagulation, blood

ABSTRACT: The effect of various drugs on ethyl dicoumarol acetate-reserpine, guanethidine, bretylium, alpha- and beta- adrenergic drugs and methyldopa. Diphasic effect of reserpine depended on duration of premedication with the latter; noradrenaline inhibited it. The hypoprothrombinemic effect of ethyl dicoumarol acetate increased when sympathicolysis was produced first. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 001

Card 1/1

HRDY, O., dr. ...

Feasibility of determination of lactic acid. Cesk. farm. 14  
no. 7:359-361 S '65.

1. Statni ustav pro kontrolu leziv, Praha.

HREHUSS, B.

Statistical reporting of cotton spinning production. p. 402.

INDUSTRIA TEXTILA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor  
din Romania si Ministerului Industriei Uoare) Bucuresti. Vol. 6, no. 11,  
Nov. 1955.

So. East European Accessions List Vol. 5, No. 9 September, 1956

HUNGARY/Nuclear Physics - Installations and Instruments. Methods C-2  
of Measurement and Research

Abstr Jour : Ref Zhur - Fizika, No 4, 1959, No 7458

Author : Hrehuss G., Neszmelyi A., Simonyi K.  
Inst : Polytechnic University, Budapest, Hungary  
Title : A Fast Neutron Time-of-Flight Spectrometer

Orig Pub : Period. polytechn. Electr. Engng., 1958, 2, No 2, 131-140

Abstract : A description of a procedure and an experimental setup for the measurement of spectra of neutrons in the energy range from 0.8 to 14 Mev. The spectrometer is intended for the measurement of spectra of inelastic scattering of (DD) and (DT) neutrons by various nuclei. The experimental arrangement is similar essentially to that employed by Cranberg and Levin (Referat Zhur Fizika, 1957, No 4, 8792). Brief neutron pulses (2-3 millimicrons-seconds) were obtained by deflecting the deuteron beam, incident on the diaphragm, by means of a high frequency electric field (4-8 mc). Deuterons with energies of 200 kv, were obtained with a Cockroft-Walton

Card : 1/3

HUNGARY/Nuclear Physics - Installations and Instruments. Methods C-2  
of Measurement and Research

Abs Jour: Ref Zhur - Fizika, No 4, 1959, No 7458

generator. The pulsating current of the deuterons incident on the target amounted to approximately 1 microampere. With such a current, the yield of (DD) and (DT) neutrons amounted to  $10^6$  and  $10^7$  neutrons per second, respectively. The neutrons were detected with a scintillation counter. The measurement of the time-of-flight were made with a single-channel system, which registered the coincidences between the pulses corresponding to the deuteron pulses, shifted by a suitable phase, and the pulses from the scintillation counter. The resolving time of the coincidence circuit is  $3 \times 10^{-9}$  sec. The phase shift was realized by means of a broadband scheme, that insured phase variation from 0 to  $360^\circ$ . The coincidence-counting rate was measured as a function of the phase shift (time delay). To exclude registration of coincidences due to neutrons arising in the preceding deuteron pulse, the output was passed from the coincidence circuit through a system of "gates," the control of which was

Card : 2/3

HUNGARY/Nuclear Physics - Installations and Instruments. Methods C-2  
of Measurement and Research

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 7458

by means of the pulse from the last dynode of the photomultiplier. The pulse was amplified and after amplitude discrimination it was applied to the circuit. To check the operation of the spectrometer, the 14 Mev line of (DT) neutrons was plotted. -- B.A. Levin

Card : 3/3

HREHUSS. Gy

19  
Spectrometer for fast-neutrons. Gyula Hrehuss, Andras  
Neszmelyi, and Karoly Simonov (Kisbont, 114, Katala,  
Budapest, Hung.). Magyar Tudomanyos Akad. Közlem.  
Fiz. Kutat. Intézetek Közleményei 6, 22-33 (1958).—A  
spectrometer for fast-neutrons was constructed which mea-  
sures the time of flight of neutrons and is applicable in  
the 0.6-14 m.e.v. range. The fast-neutron bundles were  
prep'd. by the chopped deuteron beam of a 200-kv. cascade  
generator. The signals of the neutron detector (plastic  
scintillator) were analyzed by a single time-channel system.  
The neutron impulses were in the range of 1-8 millimicrosec.  
and the resolving power of the whole system was 5 millimicro-  
sec.  
A. W. Zolotarev

5  
4E 3G  
4E 3D

pm

HREHUSS, Gyula

Spectral mass discrimination by CsJ/Tl crystal. Koz fiz kozl MTA 8  
no.2/3:107-113 '60. (EEAI 10:4)

1. A Magyar Tudomanyos Akademia Kozponti Fizikai Kutato Intezete,  
Magfizikai Laboratorium, I.  
(Cesium iodide) (Thallium) (Photons)  
(Particles) (Scintillation counters)

SALACEAN, T.; HRELESCU, M.; STOLANOVICI, P.

Some considerations on protection substances in ceramic flux.  
Studii tehn Timisoara 7 no.3/4:287-296 JI-D '60.



STOIANOVICI, P.; SALAGEAN, T.; HRELESCU, M.

Installations for the automatic beading of the used bandages in  
tramway wheels. Studii tehn Timisoara 9 no.1/2:163-170 Ja-Je '62.

HRELESCU, Mircea; POPOVICI, David; BAL, Frideric

Alloying mild steel with chromium and manganese in automatic  
build-up welding with band electrodes. Constr mas 16 no. 2:  
77-80 F '64.

NIRELESCU, Mircea, ing.; POPOVICI, David, ing.

Cutting metals at the temperature of stars. St si Teh  
Buc 16 no. 5: 34-35 May '64.

8/137/62/000/011/036/045  
A006/A101

AUTHORS: Salagean, Traian, Hrelescu, Mircea, Stoianovici, Petre  
TITLE: Alloying soft steels with chromium and manganese in an electric arc  
PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1962, 7, abstract 11E42  
("Zváranie", 1962, v. 11, no. 5, 139 - 141, Slovak.; summaries in  
Russian, German and English)

TEXT: The authors present results of research work conducted in the welding department of the Laboratory of technical materials at the Technical Institute in Timishoar (RNR). The process of alloying built-up metal in arc hardfacing of low carbon steels was studied. In manual welding the alloying elements were added to the coating, and in automatic welding to the ceramic fluxes. Alloying with two elements, Cr and Mn, is discussed. The Mn content in the built-up metal varied within a range of 0.7 - 16.5%. At a Mn content as high as 2 - 2.5%, martensite appears; at 3.1 - 3.2% the structure becomes entirely martensitic and at 3.5 - 4.0% austenite appears and cracks are forming. Hardness of the built-up metal with variable Mn content is highest at 3.1 - 3.2%. The Cr

Card 1/2